

## Title (en)

DIARYLTHIOHYDANTOIN COMPOUNDS USEFUL FOR THE TREATMENT OF A HYPERPROLIFERATIVE DISORDER

## Title (de)

DIARYLTHIOHYDANTOINVERBINDUNGEN ZUR BEHANDLUNG HYPERPROLIFERATIVER ERKRANKUNGEN

## Title (fr)

DÉRIVÉS DE DIARYLTHIOHYDANTOÏNE UTILES POUR LE TRAITEMENT DE MALADIES HYPERPROLIFÉRATIVES

## Publication

**EP 3020706 A1 20160518 (EN)**

## Application

**EP 15188222 A 20070329**

## Priority

- US 78683706 P 20060329
- EP 11181133 A 20070329
- EP 07754380 A 20070329

## Abstract (en)

The present invention relates to diarylthiohydantoin compounds and methods for synthesizing them and using them in the treatment of hormone refractory prostate cancer.

## IPC 8 full level

**A61K 31/4166** (2006.01); **A61P 35/00** (2006.01); **C07D 233/86** (2006.01)

## CPC (source: EP KR NO RU US)

**A61K 31/4166** (2013.01 - KR NO RU US); **A61K 31/4184** (2013.01 - NO US); **A61P 13/08** (2017.12 - EP); **A61P 15/00** (2017.12 - EP); **A61P 15/14** (2017.12 - EP); **A61P 35/00** (2017.12 - EP); **A61P 43/00** (2017.12 - EP); **C07D 233/86** (2013.01 - EP KR NO RU US); **C07D 235/02** (2013.01 - EP KR NO US)

## Citation (applicant)

- US 2006011417 A1 20060119 - CHEN RICHARD Y [US], et al
- US 4097578 A 19780627 - PERRONNET JACQUES, et al
- US 5411981 A 19950502 - GAILLARD-KELLY MARTINE [FR], et al
- US 5705654 A 19980106 - CLAUSSNER ANDRE [FR], et al
- WO 9700071 A1 19970103 - BIOPHYSICA FOUNDATION [US], et al
- WO 0017163 A1 20000330 - YAMANOUCHI PHARMA CO LTD [JP], et al
- US 2004009969 A1 20040115 - CLEVE ARWED [DE], et al
- US 5434176 A 19950718 - CLAUSSNER ANDRE [FR], et al
- US 4608392 A 19860826 - JACQUET BERNARD [FR], et al
- US 4992478 A 19910212 - GERIA NAVIN M [US]
- US 4559157 A 19851217 - SMITH JAMES A [US], et al
- US 4820508 A 19890411 - WORTZMAN MITCHELL S [US]
- US 4938949 A 19900703 - BORCH RICHARD F [US], et al
- CHEN, C.D.; WELSBIE, D.S.; TRAN, C.; BAEK, S.H.; CHEN, R.; VESSELLA, R.; ROSENFELD, M.G.; SAWYERS, C.L.: "Molecular determinants of resistance to antiandrogen therapy", NAT. MED., vol. 10, 2004, pages 33 - 39, XP002452801, DOI: doi:10.1038/nm972
- TEUTSCH, G.; GOUBET, F.; BATTMANN, T.; BONFILS, A.; BOUCHOUX, F.; CEREDE, E; GOFFLO, D.; GAILLARD- KELLY, M.; PHILIBERT. D. J., STEROID BOICHEM. MOLEC. BIOL., vol. 48, 1994, pages 111 - 119
- VAN DORT, M. E.; ROBINS, D. M.; WAYBUM, B., J. MED. CHEM., vol. 43, 2000, pages 3344 - 3347
- LOUIE, PNAS, vol. 100, 2003, pages 2226 - 2230
- SHANG, MOLECULAR CELL, vol. 9, 2002, pages 601 - 610
- "The Pharmacological Basis of Therapeutics", MACMILLAN PUBLISHING CO.

## Citation (search report)

- [I] FR 2693461 A1 19940114 - ROUSSEL UCLAF [FR]
- [A] WO 2005099693 A2 20051027 - UNIV CALIFORNIA [US], et al
- [XP] WO 2006124118 A1 20061123 - UNIV CALIFORNIA [US], et al

## Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

## Designated extension state (EPC)

AL BA HR MK RS

## DOCDB simple family (publication)

**WO 2007127010 A2 20071108; WO 2007127010 A3 20080731; WO 2007127010 A9 20080522;** AU 2007245022 A1 20071108; BR PI0709682 A2 20110726; CA 2648139 A1 20071108; CN 101460467 A 20090617; CN 101460467 B 20120919; CN 102755318 A 20121031; CN 102755318 B 20140910; EP 2013187 A2 20090114; EP 2013187 B1 20141029; EP 2439196 A1 20120411; EP 3020706 A1 20160518; HK 1124612 A1 20090717; HK 1177691 A1 20130830; IL 194438 A0 20090803; IL 194438 A 20160229; IL 243815 A0 20160421; JP 2009531449 A 20090903; JP 2013136642 A 20130711; JP 2015117244 A 20150625; JP 2017031223 A 20170209; JP 2017031224 A 20170209; JP 5350217 B2 20131127; JP 5934670 B2 20160615; KR 101456722 B1 20141031; KR 101519705 B1 20150512; KR 101600230 B1 20160304; KR 20090009215 A 20090122; KR 20120102147 A 20120917; KR 20150008506 A 20150122; KR 20160027254 A 20160309; MX 2008012492 A 20081212; NO 20084480 L 20081219; NO 20170919 A1 20081219; NO 341071 B1 20170821; NZ 572374 A 20111222; NZ 596260 A 20130531; RU 2008142728 A 20100510; RU 2012101095 A 20130720; RU 2018135606 A 20200410; RU 2449993 C2 20120510; RU 2668972 C2 20181005; SG 10201408699T A 20150227; SG 170809 A1 20110530; US 2007254933 A1 20071101; US 2008139634 A2 20080612; US 2012190718 A1 20120726; US 2014343111 A1 20141120; US 8110594 B2 20120207; US 8648105 B2 20140211; ZA 200809098 B 20151223

## DOCDB simple family (application)

**US 2007007854 W 20070329;** AU 2007245022 A 20070329; BR PI0709682 A 20070329; CA 2648139 A 20070329; CN 200780020099 A 20070329; CN 201210262144 A 20070329; EP 07754380 A 20070329; EP 11181133 A 20070329; EP 15188222 A 20070329; HK 09103883 A 20090427; HK 13104885 A 20130423; IL 19443808 A 20080928; IL 24381516 A 20160128;

JP 2009503016 A 20070329; JP 2013080281 A 20130408; JP 2015000837 A 20150106; JP 2016221205 A 20161114;  
JP 2016221206 A 20161114; KR 20087026364 A 20070329; KR 20127020154 A 20070329; KR 20147036806 A 20070329;  
KR 20167005044 A 20070329; MX 2008012492 A 20070329; NO 20084480 A 20081023; NO 20170919 A 20170606; NZ 57237407 A 20070329;  
NZ 59626007 A 20070329; RU 2008142728 A 20070329; RU 2012101095 A 20120112; RU 2018135606 A 20181009;  
SG 10201408699T A 20070329; SG 2011022852 A 20070329; US 201113333543 A 20111221; US 201314138001 A 20131220;  
US 73016807 A 20070329; ZA 200809098 A 20081023